Application No.: 10/720,684 Amdt. dated March 3, 2005 Reply to Office Action dated December 3, 2004

Docket No.: 9988.093.00

CLAIMS

This listing of claims are currently pending.

Listing of Claims:

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1. (Original) A gas drier comprising:

an igniter, connected to a first terminal providing a power signal with respect to a neutral terminal, for initiating a flame;

a normally closed flame detection switch, connected between said igniter and the neutral terminal to receive the power signal via said igniter, for detecting a presence of the initiated flame by opening; and

a sustaining relay for providing an alternative path of conduction with respect to said flame detection switch.

2. (Original) A gas drier comprising:

an igniter having a first terminal connected to a power supply terminal to ignite a gas;

a flame detection switch having a first terminal connected to a second terminal of said igniter, to maintain a closed state at a normal operating state time, said flame detection switch being a normally closed type switch that is opened when a flame of the igniter is detected;

a thermostat switch having one terminal connected to a second terminal of said flame detection switch, to maintain a closed state at a normal operating state, said thermostat switch being a normally closed type switch that is opened by a detection of a state of overheating;

a first valve coil having one end grounded;

a second valve coil having one end connected to the first terminal of said flame detection switch;

a sustaining relay comprising:

an operating coil having one end connected to the other end of said first valve coil

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and the other end grounded; and

a pair of contacts respectively connected across said flame detection switch; and a rectifier bridge having an output terminal tied in common to said first and second valve coils and the operating coil of said sustaining relay and a pair of input terminals respectively connected to said sustaining relay and the first terminal of said flame detection switch.

- 3. (Original) The apparatus as claimed in claim 2, wherein the contacts of the sustaining relay maintain an open state at the normal operating state and are switched to a closed state when power from said rectifier bridge is applied to the operating coil.
- 4. (Previously Presented) The apparatus as claimed in claim 2, further comprising a rectifying diode connected, anode-to-cathode, from the first terminal of said flame detection switch to the corresponding contact of said sustaining relay.